

WHAT IS CLAIMED IS:

1. A seal for installation on a trocar having a proximal end that has an access port, which seal has: (i) a general hourglass exterior shape; (ii) a passage through the seal for insertion of a surgical instrument; (iii) an upper portion and a bottom portion, said bottom portion being formed for mating engagement with the access port; and (iv) a sealing portion interposed between the upper portion and the bottom portion.

2. The seal of claim 1, wherein the diameter of the passage through the seal is approximately two millimeters.

3. The seal of claim 2, wherein the diameter of the passage through the seal is expandable from approximately two millimeters to about thirteen millimeters.

4. The seal of claim 1, wherein the seal comprises a pliable material.

5. The seal of claim 4, wherein the pliable material is silicone.

6. The seal of claim 1, wherein the sealing portion of the seal comprises a plurality of corrugations, whose interior diameters are generally uniform and whose exterior diameters are generally uniform.

7. The seal of claim 6, wherein the diameter of the passage through the seal is approximately two millimeters.

8. The seal of claim 7, wherein the diameter of the passage through the seal is expandable from two millimeters to about thirteen millimeters.

9. The seal of claim 6, wherein the seal comprises a pliable material.

10. The seal of claim 9, wherein the pliable material is silicone.

11. The seal of claim 1, wherein the sealing portion of the seal comprises a plurality of corrugations that decrease in diameter from the upper portion of the seal to the bottom portion of the seal.

12. The seal of claim 11, wherein the diameter of the passage through the seal is approximately two millimeters.

13. The seal of claim 12, wherein the diameter of the passage through the seal is expandable from approximately two millimeters to about thirteen millimeters.

14. The seal of claim 11, wherein the seal comprises a pliable material.

15. The seal of claim 14, wherein the pliable material is silicone.
16. The seal of claim 1, wherein the sealing portion has a substantially smooth surface of uniform diameter.
17. The seal of claim 16, wherein the diameter of the passage through the seal is approximately two millimeters.
18. The seal of claim 17, wherein the diameter of the passage through the seal is expandable from approximately two millimeters to about thirteen millimeters.
19. The seal of claim 16, wherein the seal comprises a pliable material.
20. The seal of claim 19, wherein the pliable material is silicone.
21. The seal of claim 1, wherein the sealing portion of the seal comprises a plurality of corrugations that increase in diameter from the upper portion of the seal to the bottom portion of the seal.
22. The seal of claim 21, wherein the diameter of the passage through the seal is approximately 2 millimeters.
23. The seal of claim 22, wherein the diameter of the passage in the seal is expandable from 2 millimeters to about 13 millimeters.
24. The seal of claim 21, wherein the seal comprises pliable materials.
25. The seal of claim 24, wherein the pliable material is silicone.
26. The seal of claim 1, wherein the sealing portion of the seal comprises a plurality of corrugations where exterior diameters are generally uniform and whose interior diameters decrease in diameter from the upper portion of the seal to the bottom portion of the seal.
27. The seal of claim 26, wherein the diameter of the passage through the seal is approximately 2 millimeters.
28. The seal of claim 27, wherein the diameter of the passage in the seal is expandable from 2 millimeters to about 13 millimeters.
29. The seal of claim 26, wherein the seal comprises pliable materials.
30. The seal of claim 29, wherein the pliable material is silicone.